DOCUMENT RESUME

ED 231 839 TM 830 260

AUTHOR Daniel, Mark
TITLE Large-Sample Test Intercorrelations. Technical Report 1983-2.
INSTITUTION Johnson O'Connor Research Foundation, Chicago, IL. Human Engineering Lab.
PUB DATE Feb 83
NOTE 26p.
PUB TYPE Statistical Data (110) -- Reports - Research/Technical (143)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS Adults; Age Differences; *Aptitude Tests; *Comparative Analysis; *Correlation; Evaluation Methods; Raw Scores; *Research and Development Centers; Sampling; Sex Differences; *Testing Programs
IDENTIFIERS *Test Batteries

ABSTRACT

The correlations of each of the 22 tests in the Johnson O'Connor Research Foundation battery with all other tests in the battery are listed. Four fairly large samples are used, each including cases of one sex and a narrow age range. These cases come from a file of 3,555 examinees tested between June 1981 and the fall of 1982. The purpose of computing and publishing these correlations is to provide a resource to be used in future research. No attempt is made in this report to interpret the individual results. The correlations are, in general, similar to those that have been reported previously for smaller samples. There may be a tendency for the present correlations to be slightly higher than earlier ones; this could be attributed to the care which has been taken in using only comparable forms of each test, and to recent efforts to reduce slight differences in scores obtained by different administrators or offices. The present report also illustrates the unreliability of correlations from small samples; for example, the correlations between Oral Ideaphoria and Wiggly Block, based on samples containing from 61 to 169 cases, range from -.05 to .40. (PN)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED231839

LARGE-SAMPLE TEST INTERCORRELATIONS

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

☒ This document has been reproduced as received from the person or organization originating it.

☐ Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

R. Barker

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

by

Mark Daniel

JOHNSON O'CONNOR RESEARCH FOUNDATION

HUMAN ENGINEERING LABORATORY

Technical Report 1983-2

February, 1983

TM 880 260

Large-Sample Test Intercorrelations

Mark Daniel

The following pages list the correlations of each test in the Johnson O'Connor Research Foundation battery with all other tests in the battery. Four fairly large samples are used, each including cases of one sex and a narrow age range. These cases come from a file of 3,555 examinees tested between June, 1981 and the fall of 1982.

The first two samples consist of males or females ages 17-18. The third and fourth samples vary in size and age range according to the pair of tests being correlated. The widest age range, 19-25, is used for tests whose scores are approximately constant over this range. If one or both of the tests being correlated shows age variation within the 19-25 range, a narrower range, 19 to 22, is used. English vocabulary scores increase steadily from year to year among teenagers and young adults, and so all correlations with English vocabulary are based on ages 19 and 20 only.

For example, scores on both Analytical Reasoning and Memory for Design are known (from norm-construction research) to be stable over the 19-25 age range, and so the intercorrelation of these tests is based on the entire 19 to 25 sample. Scores on Tweezer Dexterity are not constant within the 19-25 range, and so this test is correlated with Analytical Reasoning and Memory for Design using the narrower 19-22 sample.

Except for Wiggly Block, for which percentile scores were used, all correlations are based on raw scores. The product-moment correlation procedure has been used throughout. Care has been taken to use only those forms of a test whose raw scores are comparable with one another. The following forms have been included:

Test	Form	Test	Form
Graphoria 613	CI	Memory for Design 294	UM
	CJ	Silograms 376	AH
Ideaphoria 161	AL	Number Memory 165	AL
	CL		BG
Oral Ideaphoria 670	BB	Observation 206	DB/EB
	BD		DC/EC
Foresight 307	AK	Finger Dexterity 16	EA
Inductive Reasoning 164	LA		EB
Analytical Reasoning 244	CQ		E
Wiggly Block	AC	Tweezer Dexterity 18	II
Paper Folding 622	FA	Reading Speed 635	BC
Personality 35	AN	Reading Comprehension 635	BC
Tonal Memory 498	BN	Writing Speed	DA
Pitch Discrimination 315	FB		DB
	FC		D
	FD	English Vocabulary 690	A, B,C
Rhythm Memory 366	BB		
	BC		

The purpose of computing and publishing these correlations is to provide a resource to be used in future research. No attempt is made in this report to interpret the individual results. The correlations are, in general, similar to those that have been reported previously for smaller samples. There may be a tendency for the present correlations to be slightly higher than earlier ones; this could be attributed to the care which has been taken in using only comparable forms of each test, and to recent efforts to reduce slight differences in scores obtained by different administrators or offices. The present report also illustrates the unreliability of correlations from small samples; for example, the correlations between Oral Ideaphoria and Wiggly Block, based on samples containing from 61 to 169 cases, range from -.05 to .40.

GRAPHORIA 613 CI and CJ

	Ages 17-18		Ages 19-22	
	F	M	F	M
Ideaphoria	.181	.310	.283	.296
	(258)	(370)	(248)	(396)
Oral Ideaphoria	-.051	.317	.187	.060
	(89)	(142)	(122)	(198)
Foresight	.071	.220	.029	.154
	(258)	(372)	(241)	(388)
Inductive Reasoning	.220	.253	.210	.268
	(380)	(554)	(397)	(601)
Analytical Reasoning	.162	.173	.180	.246
	(381)	(552)	(397)	(603)
Wiggly Block (%ile Score)	.064	-.056	.053	.073
	(350)	(502)	(366)	(568)
Paper Folding	.069	-.020	.062	.109
	(377)	(546)	(393)	(599)
Personality	.091	.056	-.065	.024
	(242)	(349)	(248)	(374)
Tonal Memory	.020	.230	.180	.220
	(213)	(297)	(183)	(291)
Pitch Discrimination	.100	.150	.056	.128
	(379)	(553)	(398)	(604)
Rhythm Memory	-.003	.125	.103	.100
	(380)	(554)	(399)	(605)
Memory for Design	.151	.128	.068	.251
	(381)	(551)	(398)	(602)
Silograms	.281	.371	.146	.299
	(375)	(549)	(396)	(598)
Number Memory	.331	.391	.203	.374
	(258)	(374)	(246)	(388)
Observation	.097	.122	.086	.187
	(325)	(502)	(371)	(565)
Finger Dexterity	.148	.184	.219	.173
	(381)	(554)	(398)	(605)
Tweezer Dexterity	.025	.142	.177	.185
	(194)	(249)	(144)	(258)
Reading Speed	.189	.322	.387	.403
	(141)	(179)	(107)	(150)
Reading Comprehension	.231	.400	.319	.455
	(141)	(180)	(107)	(151)
Writing Speed	.230	.320	.306	.375
	(377)	(552)	(398)	(603)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.230	.245	.188	.300
	(381)	(554)	(247)	(353)

IDEAPHORIA 161 AL and CL

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.181	.310	.283	.296
	(258)	(370)	(248)	(396)
Oral Ideaphoria	.571	.469	.353	.454
	(57)	(81)	(71)	(111)
Foresight	.349	.342	.386	.454
	(261)	(367)	(240)	(392)
Inductive Reasoning	.192	.256	.224	.216
	(260)	(371)	(246)	(396)
Analytical Reasoning	.170	.257	.288	.181
	(261)	(369)	(246)	(398)
Wiggly Block (%ile Score)	.023	-.083	.070	.049
	(231)	(322)	(215)	(363)
Paper Folding	.026	.027	.130	.110
	(261)	(370)	(247)	(399)
Personality	-.020	.004	-.084	-.073
	(186)	(263)	(167)	(283)
Tonal Memory	.121	.100	.082	.159
	(216)	(293)	(182)	(295)
Pitch Discrimination	.125	.155	.039	.056
	(260)	(370)	(248)	(399)
Rhythm Memory	-.005	.021	.172	.086
	(261)	(371)	(248)	(400)
Memory for Design	.082	.102	.123	.171
	(261)	(368)	(247)	(397)
Silograms	.118	.235	.214	.195
	(257)	(367)	(246)	(393)
Number Memory	-.023	.136	.170	.158
	(261)	(370)	(245)	(391)
Observation	.011	.048	.063	.148
	(234)	(348)	(245)	(390)
Finger Dexterity	.080	.192	.208	.193
	(261)	(371)	(248)	(400)
Tweezer Dexterity	.119	.197	.179	.173
	(192)	(243)	(141)	(259)
Reading Speed	.131	.353	.578	.334
	(90)	(115)	(57)	(94)
Reading Comprehension	.111	.445	.504	.512
	(90)	(116)	(57)	(94)
Writing Speed	.443	.546	.608	.653
	(259)	(369)	(248)	(399)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.220	.203	.372	.352
	(261)	(371)	(145)	(223)

ORAL IDEAPHORIA 670 BB and BD

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	-.051	.317	.187	.060
	(89)	(142)	(122)	(198)
Ideaphoria	.571	.469	.353	.454
	(57)	(81)	(71)	(111)
Foresight	.373	.397	.481	.351
	(57)	(81)	(72)	(111)
Inductive Reasoning	.220	.297	.259	.198
	(92)	(143)	(122)	(204)
Analytical Reasoning	.293	.377	.314	.205
	(92)	(143)	(122)	(204)
Wiggly Block (%ile Score)	.027	.402	.154	-.048
	(61)	(92)	(91)	(169)
Paper Folding	.184	.200	.020	.151
	(92)	(143)	(122)	(204)
Personality	.064	.059	-.052	-.076
	(61)	(92)	(82)	(130)
Tonal Memory	-.015	.193	.215	-.006
	(53)	(75)	(66)	(108)
Pitch Discrimination	-.072	.207	.116	.058
	(92)	(143)	(122)	(203)
Rhythm Memory	.160	.028	.145	.186
	(92)	(143)	(122)	(204)
Memory for Design	.024	.107	.124	.082
	(92)	(142)	(122)	(204)
Silograms	.167	.362	.145	.131
	(92)	(141)	(120)	(200)
Number Memory	.136	.174	.241	.074
	(57)	(81)	(72)	(110)
Observation	.148	.157	.056	.140
	(29)	(142)	(122)	(203)
Finger Dexterity	.146	.206	-.078	.076
	(92)	(143)	(121)	(204)
Tweezer Dexterity	.150	.240	-.061	.153
	(39)	(52)	(46)	(91)
Reading Speed	.040	.489	.355	.006
	(10)	(31)	(16)	(25)
Reading Comprehension	.091	.427	.368	.119
	(10)	(32)	(16)	(25)
Writing Speed	.212	.295	.153	.167
	(91)	(143)	(122)	(204)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.262	.312	.267	.178
	(92)	(143)	(83)	(132)

FORESIGHT 307 AK

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.071	.220	.029	.154
	(258)	(372)	(241)	(388)
Ideaphoria	.349	.342	.386	.454
	(261)	(367)	(240)	(392)
Oral Ideaphoria	.373	.397	.481	.351
	(57)	(81)	(72)	(111)
Inductive Reasoning	.058	.126	.132	.162
	(260)	(373)	(239)	(388)
Analytical Reasoning	.018	.154	.153	.158
	(261)	(371)	(239)	(390)
Wiggly Block (%ile Score)	-.078	.007	.109	.036
	(231)	(324)	(209)	(355)
Paper Folding	-.031	.098	.123	.090
	(261)	(372)	(240)	(391)
Personality	-.186	.033	-.099	-.150
	(186)	(266)	(168)	(283)
Tonal Memory	.004	.086	.075	.144
	(216)	(297)	(183)	(295)
Pitch Discrimination	-.057	.053	-.033	-.024
	(260)	(372)	(241)	(391)
Rhythm Memory	-.031	.105	.058	.038
	(261)	(373)	(241)	(392)
Memory for Design	.026	.097	.100	.064
	(261)	(370)	(240)	(389)
Silograms	.035	.195	.038	.151
	(257)	(369)	(238)	(386)
Number Memory	-.091	.116	.026	.100
	(261)	(371)	(238)	(383)
Observation	-.079	.097	.078	-.010
	(234)	(350)	(238)	(382)
Finger Dexterity	.085	.131	.107	.052
	(261)	(373)	(240)	(392)
Tweezer Dexterity	.005	.100	-.070	.063
	(192)	(246)	(142)	(259)
Reading Speed	.105	.299	.257	.286
	(90)	(113)	(53)	(89)
Reading Comprehension	.090	.451	.129	.309
	(90)	(114)	(53)	(89)
Writing Speed	.233	.236	.235	.327
	(259)	(371)	(241)	(391)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.091	.215	.167	.332
	(261)	(373)	(144)	(218)

INDUCTIVE REASONING 164 FORM LA

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.219	.253	.210	.268	---	---
	(380)	(554)	(397)	(601)		
Ideaphoria	.192	.259	.224	.216	---	---
	(260)	(371)	(246)	(396)		
Oral Ideaphoria	.220	.297	.260	.198	---	---
	(92)	(143)	(122)	(204)		
Foresight	.058	.126	.132	.162	---	---
	(260)	(373)	(239)	(388)		
Analytical Reasoning	.417	.313	---	---	.410	.365
	(385)	(554)			(536)	(776)
Wiggly Block (%ile Score)	.205	.147	---	---	.292	.250
	(354)	(504)			(486)	(737)
Paper Folding	.247	.102	---	---	.220	.260
	(381)	(548)			(529)	(770)
Personality	.175	.100	.082	.024	---	---
	(245)	(350)	(248)	(378)		
Tonal Memory	.175	.163	---	---	.104	.163
	(215)	(298)			(259)	(383)
Pitch Discrimination	.105	.121	---	---	.073	.118
	(383)	(555)			(537)	(778)
Rhythm Memory	.197	.010	---	---	.142	.013
	(384)	(556)			(538)	(778)
Memory for Design	.182	.130	---	---	.248	.302
	(385)	(553)			(535)	(776)
Silograms	.253	.157	---	---	.207	.176
	(379)	(551)			(533)	(771)
Number Memory	.086	.159	---	---	.135	.187
	(260)	(375)			(340)	(511)
Observation	.300	.304	.233	.273	---	---
	(329)	(504)	(370)	(569)		
Finger Dexterity	.217	.247	---	---	.241	.318
	(385)	(556)			(537)	(778)
Tweezer Dexterity	.012	.195	.138	.192	---	---
	(196)	(250)	(142)	(259)		
Reading Speed	.137	.160	.170	.096	---	---
	(141)	(179)	(107)	(151)		
Reading Comprehension	.290	.230	.265	.188	---	---
	(141)	(180)	(107)	(152)		
Writing Speed	.107	.164	.180	.202	---	---
	(381)	(554)	(397)	(608)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.265	.066	.200	.237
	(385)	(556)	(247)	(356)

ANALYTICAL REASONING 244 FORM CQ

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.162	.173	.179	.246	---	---
	(381)	(552)	(397)	(603)		
Ideaphoria	.170	.257	.288	.181	---	---
	(261)	(369)	(246)	(398)		
Oral Ideaphoria	.293	.377	.314	.205	---	---
	(92)	(143)	(122)	(204)		
Foresight	.018	.154	.153	.158	---	---
	(261)	(371)	(239)	(390)		
Inductive Reasoning	.417	.313	---	---	.410	.365
	(385)	(554)			(536)	(776)
Wiggly Block (%ile Score)	.351	.331	---	---	.388	.379
	(355)	(502)			(485)	(737)
Paper Folding	.470	.394	---	---	.442	.473
	(382)	(547)			(530)	(772)
Personality	.160	.068	-.026	.014	---	---
	(246)	(348)	(247)	(378)		
Tonal Memory	.169	.150	---	---	.194	.236
	(216)	(296)			(259)	(384)
Pitch Discrimination	.231	.208	---	---	.255	.178
	(384)	(553)			(537)	(779)
Rhythm Memory	.150	.080	---	---	.153	.124
	(385)	(554)			(538)	(779)
Memory for Design	.306	.367	---	---	.409	.435
	(386)	(551)			(535)	(777)
Silograms	.332	.331	---	---	.352	.374
	(380)	(549)			(533)	(772)
Number Memory	.207	.257	---	---	.286	.267
	(261)	(373)			(340)	(512)
Observation	.328	.303	.299	.328	---	---
	(330)	(504)	(371)	(572)		
Finger Dexterity	.123	.174	---	---	.248	.191
	(386)	(554)			(537)	(779)
Tweezer Dexterity	.032	.123	.043	.096	---	---
	(197)	(250)	(143)	(262)		
Reading Speed	.157	.267	.343	.253	---	---
	(142)	(179)	(106)	(152)		
Reading Comprehension	.564	.519	.492	.460	---	---
	(142)	(180)	(106)	(152)		
Writing Speed	.072	.084	.250	.179	---	---
	(382)	(552)	(397)	(610)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.500	.415	.539	.504
	(386)	(554)	(247)	(359)

WIGGLY BLOCK (%ile Score) FORM AC

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.064	-.056	.053	.073	---	---
	(350)	(502)	(366)	(568)		
Ideaphoria	.023	-.083	.070	.050	---	---
	(231)	(322)	(215)	(363)		
Oral Ideaphoria	.027	.402	.154	-.048	---	---
	(61)	(92)	(91)	(169)		
Foresight	-.078	.007	.109	.036	---	---
	(231)	(324)	(209)	(355)		
Inductive Reasoning	.205	.147	---	---	.292	.250
	(354)	(504)			(486)	(737)
Analytical Reasoning	.351	.331	---	---	.388	.379
	(355)	(502)			(485)	(737)
Paper Folding	.517	.564	---	---	.656	.556
	(351)	(496)			(478)	(731)
Personality	.079	.060	.100	.047	---	---
	(221)	(309)	(228)	(350)		
Tonal Memory	.152	.043	---	---	.177	.122
	(190)	(255)			(217)	(348)
Pitch Discrimination	.213	.082	---	---	.225	.133
	(353)	(503)			(486)	(740)
Rhythm Memory	.060	.035	---	---	.171	.036
	(354)	(504)			(487)	(739)
Memory for Design	.382	.468	---	---	.520	.440
	(355)	(502)			(485)	(737)
Silograms	.164	.059	---	---	.229	.117
	(349)	(500)			(482)	(734)
Number Memory	.220	.134	---	---	.218	.155
	(231)	(326)			(289)	(472)
Observation	.221	.309	.325	.218	---	---
	(299)	(453)	(339)	(536)		
Finger Dexterity	.144	.247	---	---	.260	.205
	(355)	(504)			(486)	(739)
Tweezer Dexterity	.101	.192	.066	-.037	---	---
	(185)	(230)	(138)	(244)		
Reading Speed	.091	-.106	.252	-.029	---	---
	(137)	(159)	(101)	(142)		
Reading Comprehension	.181	.087	.272	.109	---	---
	(137)	(160)	(101)	(143)		
Writing Speed	-.049	-.001	.118	-.011	---	---
	(351)	(502)	(366)	(575)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.179	.083	.295	.273
	(355)	(504)	(226)	(335)

PAPER FOLDING 622 FA

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.069	-.020	.062	.109	---	---
	(377)	(546)	(393)	(599)		
Ideaphoria	.026	.027	.130	.110	---	---
	(261)	(370)	(247)	(399)		
Oral Ideaphoria	.184	.200	.020	.151	---	---
	(92)	(143)	(122)	(204)		
Foresight	-.031	.098	.123	.090	---	---
	(261)	(372)	(240)	(391)		
Inductive Reasoning	.247	.102	---	---	.220	.260
	(381)	(548)			(529)	(770)
Analytical Reasoning	.470	.394	---	---	.442	.473
	(382)	(547)			(530)	(772)
Wiggly Block (%ile Score)	.517	.564			.656	.556
	(351)	(496)			(478)	(731)
Personality	.121	.025	-.025	.008	---	---
	(245)	(349)	(248)	(378)		
Tonal Memory	.295	.169	---	---	.315	.293
	(216)	(297)			(260)	(385)
Pitch Discrimination	.282	.243	---	---	.315	.293
	(380)	(547)			(530)	(773)
Rhythm Memory	.182	.059	---	---	.171	.195
	(381)	(548)			(531)	(773)
Memory for Design	.484	.500	---	---	.609	.596
	(382)	(545)			(528)	(771)
Silograms	.238	.187	---	---	.297	.260
	(376)	(543)			(526)	(766)
Number Memory	.328	.180	---	---	.311	.282
	(261)	(374)			(341)	(514)
Observation	.227	.284	.353	.389	---	---
	(326)	(497)	(369)	(568)		
Finger Dexterity	.097	.155	---	---	.240	.164
	(382)	(548)	---	---	(530)	(773)
Tweezer Dexterity	.139	.209	.083	.095	---	---
	(197)	(250)	(144)	(262)		
Reading Speed	.130	.110	.198	.012	---	---
	(142)	(178)	(107)	(151)		
Reading Comprehension	.433	.245	.330	.300	---	---
	(142)	(179)	(107)	(152)		
Writing Speed	-.025	-.002	.127	.029	---	---
	(378)	(546)	(394)	(606)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.381	.299	.418	.350
	(382)	(548)	(244)	(356)

PERSONALITY 35 AN

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.091	.056	-.065	.024
	(242)	(349)	(248)	(374)
Ideaphoria	-.020	.004	-.084	-.073
	(186)	(263)	(167)	(283)
Oral Ideaphoria	.064	.060	-.052	-.076
	(61)	(92)	(82)	(130)
Foresight	-.186	.033	-.100	-.150
	(186)	(266)	(168)	(283)
Inductive Reasoning	.175	.100	.082	.024
	(245)	(350)	(248)	(378)
Analytical Reasoning	.160	.068	-.026	.014
	(246)	(348)	(247)	(378)
Wiggly Block (%ile Score)	.079	.060	.100	.047
	(221)	(309)	(228)	(350)
Paper Folding	.121	.025	-.025	.008
	(245)	(349)	(248)	(378)
Tonal Memory	.088	.028	-.072	.059
	(179)	(254)	(160)	(269)
Pitch Discrimination	.085	.103	.045	-.006
	(244)	(349)	(249)	(379)
Rhythm Memory	.145	.006	-.000	.073
	(245)	(350)	(249)	(379)
Memory for Design	.032	.005	.047	-.015
	(246)	(347)	(248)	(377)
Silograms	.083	.024	.077	-.062
	(241)	(345)	(246)	(373)
Number Memory	.090	.107	-.011	.131
	(186)	(265)	(166)	(279)
Obse vation	.070	.042	-.036	-.025
	(205)	(313)	(234)	(354)
Finger Dexterity	-.025	-.044	-.150	-.010
	(246)	(350)	(248)	(379)
Tweezer Dexterity	.139	.042	.072	-.009
	(166)	(218)	(40)	(248)
Reading Speed	.136	-.054	.106	.144
	(92)	(107)	(62)	(99)
Reading Comprehension	.108	.085	.061	.002
	(92)	(108)	(62)	(99)
Writing Speed	-.137	-.065	-.090	-.062
	(242)	(348)	(249)	(377)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.169	-.007	.002	.004
	(246)	(350)	(151)	(212)

TONAL MEMORY 498 BN

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.020	.230	.180	.220	---	---
	(213)	(297)	(183)	(291)		
Ideaphoria	.121	.100	.082	.159	---	---
	(216)	(293)	(182)	(295)		
Oral Ideaphoria	-.016	.193	.215	-.006	---	---
	(53)	(75)	(66)	(108)		
Foresight	.004	.086	.075	.144	---	---
	(216)	(297)	(183)	(295)		
Inductive Reasoning	.175	.163	---	---	.104	.163
	(215)	(298)			(259)	(383)
Analytical Reasoning	.169	.150	---	---	.194	.236
	(216)	(296)			(259)	(384)
Wiggly Block (%ile Score)	.152	.043	---	---	.177	.122
	(190)	(255)			(217)	(348)
Paper Folding	.295	.169	---	---	.315	.293
	(216)	(297)			(260)	(385)
Personality	.088	.028	-.072	.059	---	---
	(179)	(254)	(160)	(269)		
Pitch Discrimination	.597	.550	---	---	.542	.530
	(215)	(297)			(261)	(385)
Rhythm Memory	.492	.431	---	---	.408	.391
	(216)	(298)			(261)	(385)
Memory for Design	.248	.199	---	---	.230	.225
	(216)	(295)			(259)	(384)
Silograms	.211	.231	---	---	.197	.191
	(212)	(294)			(258)	(381)
Number Memory	.074	.136	---	---	.136	.105
	(216)	(296)			(259)	(380)
Observation	.124	.116	.074	.157	---	---
	(189)	(275)	(180)	(286)		
Finger Dexterity	.072	.165	---	---	.130	.029
	(216)	(298)			(260)	(386)
Tweezer Dexterity	.088	.135	.009	.017	---	---
	(191)	(244)	(140)	(257)		
Reading Speed	.213	.305	.063	.007	---	---
	(82)	(99)	(43)	(78)		
Reading Comprehension	.267	.381	.302	.151	---	---
	(82)	(100)	(43)	(78)		
Writing Speed	.075	.127	.080	.174	---	---
	(214)	(296)	(183)	(294)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.261	.251	.284	.240
	(216)	(298)	(106)	(160)

PITCH DISCRIMINATION 315 FORMS FB, FC, FD

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.100	.150	.056	.128	---	---
	(379)	(553)	(398)	(604)		
Ideaphoria	.125	.155	.039	.056	---	---
	(260)	(370)	(248)	(399)		
Oral Ideaphoria	-.072	.207	.116	.058	---	---
	(92)	(143)	(122)	(203)		
Foresight	-.057	.053	-.033	-.024	---	---
	(260)	(372)	(241)	(391)		
Inductive Reasoning	.105	.121	---	---	.073	.118
	(383)	(555)			(537)	(778)
Analytical Reasoning	.231	.208	---	---	.255	.178
	(384)	(553)			(537)	(779)
Wiggly Block (%ile Score)	.213	.082	---	---	.225	.133
	(353)	(503)			(486)	(740)
Paper Folding	.282	.243	---	---	.298	.271
	(380)	(547)			(530)	(773)
Personality	.085	.103	.045	-.006	---	---
	(244)	(349)	(249)	(379)		
Tonal Memory	.597	.550	---	---	.542	.530
	(215)	(297)			(261)	(385)
Rhythm Memory	.203	.249	---	---	.225	.159
	(384)	(555)			(539)	(781)
Memory for Design	.221	.240	---	---	.288	.227
	(384)	(552)			(536)	(779)
Silograms	.186	.238	---	---	.233	.166
	(378)	(550)			(534)	(774)
Number Memory	.115	.145	---	---	.176	.063
	(260)	(374)			(342)	(514)
Observation	.113	.142	.152	.149	---	---
	(328)	(503)	(371)	(572)		
Finger Dexterity	.043	.106	---	---	.130	.077
	(384)	(555)			(538)	(781)
Tweezer Dexterity	.005	.181	.036	-.019	---	---
	(196)	(249)	(144)	(262)		
Reading Speed	.070	.165	.012	-.012	---	---
	(140)	(178)	(100)	(152)		
Reading Comprehension	.306	.324	.379	.131	---	---
	(140)	(179)	(106)	(153)		
Writing Speed	.106	.093	.118	.107	---	---
	(380)	(553)	(398)	(611)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.194	.271	.319	.111
	(384)	(555)	(248)	(359)

RHYTHM MEMORY 366 BB and BC

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	-.003	.125	.103	.100	---	---
	(380)	(554)	(399)	(605)		
Ideaphoria	-.005	.021	.172	.086		
	(261)	(371)	(248)	(400)		
Oral Ideaphoria	.160	.028	.145	.186	---	---
	(92)	(143)	(122)	(204)		
Foresight	-.031	.105	.058	.038	---	---
	(261)	(373)	(241)	(392)		
Inductive Reasoning	.197	.010	---	---	.142	.013
	(384)	(556)			(538)	(778)
Analytical Reasoning	.150	.080	---	---	.153	.124
	(385)	(554)			(538)	(779)
Wiggly Block (%ile Score)	.060	.035	---	---	.171	.036
	(354)	(504)			(487)	(739)
Paper Folding	.182	.059	---	---	.171	.195
	(381)	(548)			(531)	(773)
Personality	.145	.006	-.000	.073	---	---
	(245)	(350)	(249)	(379)		
Tonal Memory	.492	.431	---	---	.408	.391
	(216)	(298)			(261)	(385)
Pitch Discrimination	.203	.249	---	---	.225	.159
	(384)	(555)			(539)	(781)
Memory for Design	.116	.128	---	---	.170	.154
	(385)	(553)			(537)	(779)
Silograms	.073	.150	---	---	.126	.172
	(379)	(551)			(535)	(774)
Number Memory	.127	.168	---	---	.151	.189
	(261)	(375)			(342)	(514)
Observation	.098	.093	.090	.164	---	---
	(329)	(504)	(372)	(573)		
Finger Dexterity	-.007	.-85	---	---	.141	.011
	(385)	(556)			(539)	(781)
Tweezer Dexterity	.044	.040	.023	.069	---	---
	(197)	(250)	(144)	(262)		
Reading Speed	.026	.022	.060	.021	---	---
	(141)	(179)	(107)	(152)		
Reading Comprehension	.191	.115	.240	.079	---	---
	(141)	(180)	(107)	(153)		
Writing Speed	.024	.020	.151	.104	---	---
	(381)	(554)	(399)	(612)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.158	.170	.045	.171
	(385)	(556)	(248)	(359)

MEMORY FOR DESIGN 294 UM

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.151	.128	.068	.251	---	---
	(381)	(551)	(398)	(602)		
Ideaphoria	.082	.102	.123	.171	---	---
	(261)	(368)	(247)	(397)		
Oral Ideaphoria	.024	.107	.124	.082	---	---
	(92)	(142)	(122)	(204)		
Foresight	.026	.097	.100	.064	---	---
	(261)	(370)	(240)	(389)		
Inductive Reasoning	.182	.130	---	---	.248	.302
	(385)	(553)			(535)	(776)
Analytical Reasoning	.306	.367	---	---	.409	.435
	(386)	(551)			(535)	(777)
Wiggly Block (%ile Score)	.382	.468	---	---	.520	.440
	(355)	(502)			(485)	(737)
Paper Folding	.484	.500	---	---	.609	.596
	(382)	(545)			(528)	(771)
Personality	.032	.005	.047	-.015	---	---
	(246)	(347)	(248)	(377)		
Tonal Memory	.248	.199	---	---	.230	.225
	(216)	(295)			(259)	(384)
Pitch Discrimination	.221	.240	---	---	.288	.227
	(384)	(552)			(536)	(779)
Rhythm Memory	.116	.128	---	---	.170	.154
	(385)	(553)			(537)	(779)
Silograms	.306	.347	---	---	.432	.380
	(380)	(548)			(532)	(772)
Number Memory	.389	.378	---	---	.443	.466
	(261)	(372)			(339)	(513)
Observation	.302	.407	.484	.457	---	---
	(330)	(501)	(371)	(570)		
Finger Dexterity	.136	.228	---	---	.251	.223
	(386)	(553)			(536)	(779)
Tweezer Dexterity	.062	.275	.047	.225	---	---
	(197)	(249)	(143)	(260)		
Reading Speed	.075	.065	.228	-.049	---	---
	(142)	(178)	(107)	(151)		
Reading Comprehension	.349	.314	.370	.290	---	---
	(142)	(179)	(107)	(152)		
Writing Speed	.061	.119	.116	.132	---	---
	(382)	(551)	(398)	(609)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.273	.261	.371	.289
	(386)	(553)	(248)	(357)

SILOGRAMS 376 AH

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.281	.371	.146	.299	---	---
	(375)	(549)	(396)	(598)		
Ideaphoria	.118	.235	.214	.195	---	---
	(257)	(367)	(246)	(393)		
Oral Ideaphoria	.167	.362	.145	.131	---	---
	(92)	(141)	(120)	(200)		
Foresight	.035	.195	.038	.151	---	---
	(237)	(369)	(238)	(386)		
Inductive Reasoning	.253	.157	---	---	.207	.176
	(379)	(551)			(533)	(771)
Analytical Reasoning	.332	.331	---	---	.352	.374
	(380)	(549)			(533)	(772)
Wiggly Block (%ile Score)	.164	.059	---	---	.229	.117
	(349)	(500)			(482)	(734)
Paper Folding	.238	.187	---	---	.297	.260
	(376)	(543)			(526)	(766)
Personality	.083	.024	.077	-.062	---	---
	(241)	(345)	(246)	(373)		
Tonal Memory	.211	.231	---	---	.197	.192
	(212)	(294)			(258)	(381)
Pitch Discrimination	.186	.238	---	---	.233	.166
	(378)	(550)			(534)	(774)
Rhythm Memory	.073	.150	---	---	.126	.172
	(379)	(551)			(535)	(774)
Memory for Design	.306	.347	---	---	.423	.380
	(380)	(548)			(532)	(772)
Number Memory	.480	.485	---	---	.493	.513
	(257)	(371)			(338)	(508)
Observation	.197	.262	.302	.290	---	---
	(325)	(499)	(369)	(565)		
Finger Dexterity	.026	.101	---	---	.112	.129
	(380)	(551)			(535)	(774)
Tweezer Dexterity	-.022	.106	.012	.013	---	---
	(196)	(246)	(141)	(257)		
Reading Speed	.334	.212	.151	.245	---	---
	(140)	(177)	(105)	(150)		
Reading Comprehension	.421	.390	.439	.492	---	---
	(140)	(178)	(105)	(151)		
Writing Speed	.141	.253	.225	.240	---	---
	(377)	(549)	(396)	(604)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.340	.446	.463	.496
	(380)	(551)	(246)	(354)

NUMBER MEMORY 165 AL and BG

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.331	.391	.203	.374	---	---
	(258)	(374)	(246)	(388)		
Ideaphoria	-.023	.136	.170	.158	---	---
	(261)	(370)	(245)	(391)		
Oral Ideaphoria	.136	.174	.241	.074	---	---
	(57)	(81)	(72)	(110)		
Foresight	-.091	.116	.026	.100	---	---
	(261)	(371)	(238)	(383)		
Inductive Reasoning	.086	.159	---	---	.135	.187
	(260)	(375)			(340)	(511)
Analytical Reasoning	.207	.257	---	---	.286	.267
	(261)	(373)			(340)	(512)
Wiggly Block (%ile Score)	.220	.134	---	---	.218	.155
	(231)	(326)			(289)	(472)
Paper Folding	.328	.180	---	---	.311	.282
	(261)	(374)			(341)	(514)
Personality	.090	.107	-.011	.131	---	---
	(186)	(265)	(166)	(279)		
Tonal Memory	.074	.136	---	---	.136	.105
	(216)	(296)			(259)	(380)
Pitch Discrimination	.115	.145	---	---	.176	.063
	(260)	(374)			(342)	(514)
Rhythm Memory	.127	.168	---	---	.151	.189
	(261)	(375)			(342)	(514)
Memory for Design	.389	.378	---	---	.443	.466
	(261)	(372)			(330)	(513)
Silograms	.480	.485	---	---	.493	.513
	(257)	(371)			(338)	(508)
Observation	.169	.319	.309	.355	---	---
	(234)	(352)	(243)	(381)		
Finger Dexterity	.060	.123	---	---	.112	.150
	(261)	(375)			(341)	(514)
Tweezer Dexterity	.016	.099	.104	.188	---	---
	(192)	(246)	(140)	(254)		
Reading Speed	.049	-.031	.180	.258	---	---
	(90)	(116)	(58)	(93)		
Reading Comprehension	.157	.109	.516	.426	---	---
	(90)	(117)	(58)	(93)		
Writing Speed	.120	.154	.199	.216	---	---
	(259)	(373)	(246)	(391)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.202	.199	.269	.294
	(261)	(375)	(146)	(217)

OBSERVATION 206 DB/EB and DC/EC

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.097	.122	.086	.187
	(325)	(502)	(371)	(565)
Ideaphoria	.011	.048	.063	.148
	(234)	(348)	(245)	(390)
Oral Ideaphoria	.148	.157	.056	.140
	(92)	(142)	(122)	(203)
Foresight	-.079	.097	.078	-.010
	(234)	(350)	(238)	(382)
Inductive Reasoning	.300	.304	.233	.273
	(329)	(504)	(370)	(569)
Analytical Reasoning	.328	.303	.299	.328
	(330)	(504)	(371)	(572)
Wiggly Block (%ile Score)	.221	.309	.325	.218
	(299)	(453)	(339)	(536)
Paper Folding	.227	.284	.353	.389
	(326)	(497)	(369)	(568)
Personality	.070	.042	-.036	-.025
	(205)	(313)	(234)	(354)
Tonal Memory	.124	.116	.074	.157
	(189)	(275)	(180)	(286)
Pitch Discrimination	.113	.142	.152	.149
	(328)	(503)	(371)	(572)
Rhythm Memory	.098	.093	.090	.164
	(329)	(504)	(372)	(573)
Memory for Design	.302	.407	.484	.457
	(330)	(501)	(371)	(570)
Silograms	.197	.262	.302	.290
	(325)	(499)	(369)	(565)
Number Memory	.169	.319	.309	.355
	(234)	(352)	(243)	(381)
Finger Dexterity	.269	.177	.217	.193
	(330)	(504)	(371)	(573)
Tweezer Dexterity	.089	.225	.141	.175
	(170)	(230)	(142)	(254)
Reading Speed	.118	.141	-.083	-.020
	(90)	(136)	(84)	(118)
Reading Comprehension	.286	.204	-.012	.095
	(90)	(137)	(84)	(118)
Writing Speed	.017	.056	.098	.134
	(327)	(502)	(371)	(572)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.147	.141	.213	.167
	(330)	(504)	(234)	(338)

FINGER DEXTERITY 16 FORMS EA, EB, and E

	Ages 17-18		Ages 19-22		Ages 19-25	
	F	M	F	M	F	M
Graphoria	.148	.184	.219	.173	---	---
	(381)	(554)	(398)	(605)		
Ideaphoria	.080	.192	.208	.193	---	---
	(261)	(371)	(248)	(400)		
Oral Ideaphoria	.146	.206	-.078	.076	---	---
	(92)	(143)	(121)	(204)		
Foresight	.085	.131	.107	.052	---	---
	(261)	(373)	(240)	(392)		
Inductive Reasoning	.217	.247	---	---	.241	.318
	(385)	(550)			(537)	(778)
Analytical Reasoning	.123	.174	---	---	.248	.191
	(386)	(554)			(537)	(779)
Wiggly Block (%ile Score)	.144	.247	---	---	.260	.205
	(355)	(504)			(486)	(739)
Paper Folding	.097	.155	---	---	.240	.164
	(382)	(548)			(530)	(773)
Personality	-.025	-.044	-.150	-.010	---	---
	(246)	(350)	(248)	(379)		
Tonal Memory	.072	.165	---	---	.130	.029
	(216)	(298)			(260)	(386)
Pitch Discrimination	.043	.106	---	---	.130	.077
	(384)	(555)			(538)	(781)
Rhythm Memory	-.007	.085	---	---	.141	.011
	(385)	(556)	---	---	(538)	(781)
Memory for Desgin	.136	.228	---	---	.241	.223
	(386)	(553)			(536)	(779)
Silograms	.026	.101	---	---	.112	.129
	(380)	(551)			(535)	(774)
Number Memory	.060	.123	---	---	.112	.150
	(261)	(375)			(341)	(514)
Observation	.269	.177	.217	.193	---	---
	(330)	(504)	(371)	(573)		
Tweezer Dexterity	.292	.226	.303	.336	---	---
	(197)	(250)	(143)	(262)		
Reading Speed	.068	.122	.247	.139	---	---
	(142)	(179)	(106)	(152)		
Reading Comprehension	.123	.077	.166	.123	---	---
	(142)	(180)	(106)	(153)		
Writing Speed	.139	.260	.247	.227	---	---
	(382)	(554)	(398)	(612)		

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.036	.057	.193	.062
	(386)	(556)	(247)	(359)

TWEEZER DEXTERITY 18 II

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.025	.142	.177	.185
	(194)	(249)	(144)	(258)
Ideaphoria	.119	.197	.179	.173
	(192)	(243)	(141)	(259)
Oral Ideaphoria	.150	.240	-.061	.153
	(39)	(52)	(46)	(91)
Foresight	.005	.100	-.070	.063
	(192)	(246)	(142)	(259)
Inductive Reasoning	.012	.195	.138	.192
	(196)	(250)	(142)	(259)
Analytical Reasoning	.032	.123	.043	.096
	(197)	(250)	(143)	(262)
Wiggly Block (%ile Score)	.101	.192	.066	-.037
	(185)	(230)	(138)	(244)
Paper Folding	.139	.209	.083	.095
	(197)	(250)	(144)	(262)
Personality	.139	.042	.072	-.009
	(166)	(218)	(140)	(248)
Tonal Memory	.088	.135	.009	.017
	(191)	(244)	(140)	(257)
Pitch Discrimination	.005	.181	.036	-.019
	(196)	(249)	(144)	(262)
Rhythm Memory	.044	.040	.023	.069
	(197)	(250)	(144)	(262)
Memory for Design	.062	.275	.047	.225
	(197)	(249)	(143)	(260)
Silograms	-.022	.106	.012	.013
	(196)	(246)	(141)	(257)
Number Memory	.016	.099	.104	.188
	(192)	(246)	(140)	(254)
Observation	.089	.225	.141	.175
	(170)	(230)	(142)	(254)
Finger Dexterity	.292	.226	.303	.336
	(197)	(250)	(143)	(262)
Reading Speed	-.052	.161	.321	-.032
	(80)	(92)	(40)	(73)
Reading Comprehension	-.091	.272	.333	.093
	(80)	(93)	(40)	(73)
Writing Speed	.006	.215	.244	.223
	(195)	(248)	(144)	(261)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	-.005	-.011	-.076	-.077
	(197)	(250)	(83)	(143)

READING SPEED 635 BC

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.189	.322	.387	.403
	(141)	(179)	(107)	(150)
Ideaphoria	.131	.353	.576	.334
	(90)	(115)	(57)	(94)
Oral Ideaphoria	.040	.489	.355	.006
	(10)	(31)	(16)	(25)
Foresight	.105	.299	.257	.286
	(90)	(113)	(53)	(89)
Inductive Reasoning	.137	.160	.170	.096
	(141)	(179)	(107)	(151)
Analytical Reasoning	.157	.267	.343	.253
	(142)	(179)	(106)	(151)
Wiggly Block (%ile Score)	.091	-.106	.252	-.029
	(137)	(159)	(101)	(142)
Paper Folding	.130	.110	.198	.012
	(142)	(178)	(107)	(151)
Personality	.136	-.054	.106	.144
	(92)	(107)	(62)	(99)
Tonal Memory	.213	.305	.063	.007
	(82)	(99)	(43)	(78)
Pitch Discrimination	.070	.165	.012	-.020
	(140)	(178)	(106)	(152)
Rhythm Memory	.026	.022	.060	.021
	(141)	(179)	(107)	(152)
Memory for Design	.075	.065	.228	-.049
	(142)	(178)	(107)	(151)
Silograms	.334	.212	.151	.245
	(140)	(177)	(105)	(150)
Number Memory	.049	-.031	.180	.254
	(90)	(116)	(58)	(93)
Observation	.118	.141	-.083	-.020
	(90)	(136)	(84)	(118)
Finger Dexterity	.068	.122	.247	.139
	(142)	(179)	(106)	(152)
Tweezer Dexterity	-.052	.161	.321	-.032
	(80)	(92)	(40)	(73)
Reading Comprehension	.466	.509	.509	.489
	(142)	(179)	(107)	(151)
Writing Speed	.201	.255	.420	.352
	(140)	(179)	(107)	(151)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.302	.374	.479	.502
	(142)	(179)	(65)	(76)

READING COMPREHENSION 635 BC

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.231	.400	.319	.455
	(141)	(180)	(107)	(151)
Ideaphoria	.111	.445	.504	.512
	(90)	(116)	(57)	(94)
Oral Ideaphoria	.091	.427	.368	.119
	(10)	(32)	(16)	(25)
Foresight	.090	.451	.129	.309
	(90)	(114)	(53)	(89)
Inductive Reasoning	.290	.229	.265	.188
	(141)	(180)	(107)	(152)
Analytical Reasoning	.564	.519	.492	.460
	(142)	(180)	(106)	(152)
Wiggly Block (%ile Score)	.181	.087	.272	.109
	(137)	(160)	(101)	(143)
Paper Folding	.433	.245	.330	.299
	(142)	(179)	(107)	(152)
Personality	.108	.085	.061	.002
	(92)	(108)	(62)	(99)
Tonal Memory	.267	.381	.302	.151
	(82)	(100)	(43)	(78)
Pitch Discrimination	.306	.324	.379	.131
	(140)	(179)	(106)	(153)
Rhythm Memory	.191	.115	.240	.079
	(141)	(180)	(107)	(152)
Memory for Design	.349	.314	.370	.290
	(142)	(179)	.107	(153)
Silograms	.421	.390	.439	.492
	(140)	(178)	(105)	(151)
Number Memory	.157	.109	.516	.426
	(90)	(117)	(58)	(93)
Observation	.286	.204	-.012	.095
	(90)	(137)	(84)	(118)
Finger Dexterity	.123	.077	.166	.123
	(142)	(180)	(106)	(153)
Tweezer Dexterity	-.091	.272	.333	.093
	(80)	(93)	(40)	(73)
Reading Speed	.466	.509	.509	.489
	(142)	(179)	(107)	(151)
Writing Speed	.028	.182	.403	.359
	(140)	(180)	(107)	(152)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.719	.671	.640	.833
	(142)	(180)	(65)	(78)

WRITING SPEED 635 FORMS DA, DB, and D

	Ages 17-18		Ages 19-22	
	F	M	F	M
Graphoria	.229	.320	.306	.375
	(377)	(552)	(398)	(603)
Ideaphoria	.443	.546	.608	.653
	(259)	(369)	(248)	(395)
Oral Ideaphoria	.212	.295	.153	.167
	(91)	(143)	(122)	(204)
Foresight	.233	.236	.235	.327
	(259)	(371)	(241)	(391)
Inductive Reasoning	.107	.164	.180	.202
	(381)	(554)	(397)	.608
Analytical Reasoning	.072	.084	.250	.179
	(382)	(552)	(397)	(610)
Wiggly Block (%ile Score)	-.049	-.001	.118	-.011
	(351)	(502)	(366)	(575)
Paper Folding	-.025	-.002	.127	.029
	(378)	(546)	(394)	(606)
Personality	-.137	-.065	-.090	-.062
	(242)	(348)	(249)	(377)
Tonal Memory	.075	.127	.080	.174
	(214)	(296)	(183)	(294)
Pitch Discrimination	.106	.093	.118	.107
	(380)	(553)	(398)	(611)
Rhythm Memory	.024	.020	.151	.104
	(381)	(554)	(399)	(612)
Memory for Design	.061	.119	.116	.132
	(382)	(551)	(398)	(609)
Silograms	.141	.253	.225	.240
	(377)	(549)	(396)	(604)
Number Memory	.120	.154	.199	.216
	(259)	(373)	(246)	(391)
Observation	.017	.056	.098	.134
	(327)	(502)	(371)	(572)
Finger Dexterity	.139	.260	.247	.227
	(382)	(554)	(398)	(612)
Tweezer Dexterity	.006	.215	.244	.223
	(195)	(248)	(144)	(261)
Reading Speed	.201	.255	.420	.352
	(140)	(179)	(107)	(151)
Reading Comprehension	.028	.182	.403	.359
	(140)	(180)	(107)	(152)

	Ages 17-18		Ages 19-20	
	F	M	F	M
English Vocabulary	.051	.154	.255	.246
	(382)	(554)	(247)	(357)

ENGLISH VOCABULARY 690 A, B, C

	Ages 17-18		Ages 19-20	
	F	M	F	M
Graphoria	.230	.245	.188	.300
	(381)	(554)	(247)	(353)
Ideaphoria	.220	.203	.372	.352
	(261)	(371)	(145)	(223)
Oral Ideaphoria	.262	.312	.267	.179
	(92)	(143)	(83)	(132)
Foresight	.091	.215	.167	.332
	(261)	(373)	(144)	(218)
Inductive Reasoning	.265	.066	.200	.237
	(385)	(556)	(247)	(356)
Analytical Reasoning	.496	.415	.539	.504
	(386)	(554)	(247)	(359)
Wiggly Block (%ile Score)	.179	.083	.295	.273
	(355)	(504)	(226)	(335)
Paper Folding	.381	.299	.418	.350
	(382)	(548)	(244)	(356)
Personality	.169	-.007	.002	.004
	(246)	(350)	(151)	(212)
Tonal Memory	.261	.251	.284	.240
	(216)	(298)	(106)	(160)
Pitch Discrimination	.194	.271	.319	.111
	(384)	(555)	(248)	(359)
Rhythm Memory	.158	.171	.045	.171
	(385)	(556)	(248)	(359)
Memory for Design	.273	.261	.371	.289
	(386)	(553)	(248)	(357)
Silograms	.340	.446	.463	.496
	(380)	(551)	(246)	(354)
Number Memory	.202	.199	.269	.294
	(261)	(375)	(146)	(217)
Observation	.147	.141	.213	.167
	(330)	(504)	(234)	(338)
Finger Dexterity	.036	.057	.193	.062
	(386)	(556)	(247)	(359)
Tweezer Dexterity	-.005	-.011	-.076	-.077
	(197)	(250)	(83)	(143)
Reading Speed	.302	.374	.479	.502
	(142)	(179)	(65)	(76)
Reading Comprehension	.719	.671	.640	.833
	(142)	(180)	(65)	(78)
Writing Speed	.051	.154	.255	.246
	(382)	(554)	(247)	(357)